CLASSIFICATION GUIDE

Agency Interest Number: _____ Site Name: _____

☐ INITIAL CLASSIFICATION ☐ AMENDED CLASSIFICATION

SOIL

Instructions: Answer applicable questions. This guide places UST systems into a particular class and establishes screening levels for soil. All other requirements for classification purposes are contained in the Classification Outline.

1. Are any domestic-use wells, domestic-use springs or domestic-use cisterns located within a 100-meter (328 feet) radius from the excavation zone?	☐ Yes	Proceed to question 3. Provide below the physical address and contact information for the owner of each domestic-use well, domestic-use spring or domestic-use cistern identified.
	☐ No	Proceed to question 2.
	☐ N/A	Domestic-use wells, domestic-use springs or domestic-use cisterns were disregarded. *See note. Proceed to question 2.
2. Does analysis of soil samples collected from the excavation zone or soil borings indicate levels above the Class A adjusted soil screening levels onsite specified in the Class A Soil Screening Levels Table?	☐ Yes	Class A Adjusted Soil Screening Levels apply to soil within the Point of Compliance and the applicable Class B Soil Matrix Table Screening Levels apply to soils beyond the Point of Compliance–(Complete Class A Soil Screening Levels Table below).
	☐ No	Soil levels meet the requirements for Class A. (Complete Class A Soil Screening levels Table below.)
3. Does analysis of soil samples collected from the excavation zone or soil borings indicate levels above those specified in the applicable Class B Soil Matrix Table?	☐ Yes	The applicable Class B Soil Matrix Table Screening Levels apply both within and beyond the Point of Compliance (Complete Class B Soil Screening Levels Table below).
	☐ No	Soil levels meet the requirements for Class B. (Complete Class B Soil Screening Levels Table below).

NOTE: Domestic-use wells, domestic-use springs or domestic-use cisterns: If site-specific information demonstrates no potential impact (e.g., a domestic-use well hydrogeologically upgradient from the excavation zone) to domestic-use wells, domestic-use springs, or domestic-use cisterns from a release within the excavation zone, those features shall be disregarded in the determination of site classification.

DESIGNATION OF SOIL SCREENING LEVELS

Agency Interest Number: _____

For those UST systems classified as Class A, complete the Class A Soil Screening Levels Table as follows:

Row 1 identifies the baseline soil screening levels in Class A.

Row 2 shall be completed by the P.E. or P.G. to identify the applicable Matrix Table levels applicable to soil beyond the Point of Compliance. These levels shall be utilized as soil screening levels beyond the Point of Compliance.

Row 3 shall be completed by the P.E. or P.G. to identify the adjusted soil screening levels required within the Point of Compliance for UST facilities in Class A. Choose the less stringent constituent levels from Rows 1 and 2 for each constituent and complete Row 3 to identify the final soil screening levels within the Point of Compliance.

Class A Soil Screening Levels Table

		B	T	E	X	cPAH	B(a)A	nPAH	NAP	Ch	LEAD
1	CLASS A BASELINE SOIL SCREENING LEVELS **WITHIN** THE POINT OF COMPLIANCE (PPM)	**2**	**18**	**30**	**50**	**0.3**	**0.15**	**10**	**5**	**15**	**400**
2	MATRIX TABLE SOIL SCREENING LEVELS **BEYOND** THE POINT OF COMPLIANCE	Class B SOIL MATRIX TABLE _____ Soil Type:_____ Depth to Groundwater:_____ (See Section 5.1 of the Classification Outline)									
3	CLASS A ADJUSTED SOIL SCREENING LEVELS **WITHIN** THE POINT OF COMPLIANCE										

BTEX: Benzene, Toluene, Ethylbenzene, and Xylene (total)
PAH: Polynuclear Aromatic Hydrocarbons
Ch: Soil Screening level individually for Chrysene
B(a)A: Soil Screening level individually for Benzo(a)anthracene
cPAH: Soil Screening level individually for Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Dibenzo(a,h)anthracene, and Indeno(1,2,3-cd)pyrene
nPAH: Soil Screening level individually for Acenaphthene, Acenaphthylene, Anthracene, Benzo(ghi)perylene, Fluoranthene, Fluorene, Phenanthrene, and Pyrene.
NAP: Soil Screening Level Individually for Naphthalene
PPM: mg/kg - parts per million

NOTE: The UST Branch may consider the variability in analytical results within the laboratory methods specified in USEPA SW-846.

For those UST systems classified as Class B, complete the Class B Soil Screening Levels Table below.

Class B Soil Screening Levels Table

Class B SOIL MATRIX TABLE _____ (Fill in blanks): Soil Type:_____
Depth to Groundwater:_____ (See Section 5.1 of the Classification Outline)

	B	T	E	X	cPAH	B(a)A	nPAH	NAP	Ch	LEAD
SOIL SCREENING LEVELS WITHIN AND BEYOND THE POINT OF COMPLIANCE										

BTEX: Benzene, Toluene, Ethylbenzene, and Xylene (total)
PAH: Polynuclear Aromatic Hydrocarbons
Ch: Soil Screening level individually for Chrysene
B(a)A: Soil Screening level individually for Benzo(a)anthracene
cPAH: Soil Screening level individually for Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Dibenzo(a,h)anthracene, and Indeno(1,2,3-cd)pyrene
nPAH: Soil Screening level individually for Acenaphthene, Acenaphthylene, Anthracene, Benzo(ghi)perylene, Fluoranthene, Fluorene, Phenanthrene, and Pyrene.
NAP: Soil Screening Level Individually for Naphthalene
PPM: mg/kg - parts per million

NOTE: The UST Branch may consider the variability in analytical results within the laboratory methods specified in USEPA SW-846.

GROUNDWATER

Agency Interest Number: _____

Instructions: Answer questions 1 and 2 of this guide to establish screening levels for groundwater. All other requirements for classification purposes are contained in the Classification Outline.

1. Is the UST facility serviced by a public water supply?	☐ Yes	Proceed to question 2.
	☐ No	Groundwater Table I screening levels apply within and beyond the *POC.
2. Are domestic-use wells, domestic-use springs, or domestic-use cisterns located within a 100-meter (328 feet) radius from the excavation zone?	☐ Yes	Groundwater Table I screening levels apply within and beyond the *POC.
	☐ No	Proceed to question 3.
	☐ N/A	Domestic-use wells, domestic-use springs or domestic-use cisterns were disregarded. See note below. Proceed to question 3.
3. Are domestic-use wells, domestic-use springs, or domestic-use cisterns located within a 100-meter (328 feet) to 300-meter (984 feet) radius from the excavation zone?	☐ Yes	Groundwater Table II screening levels apply within the *POC, and Groundwater Table I screening levels apply beyond the *POC.
	☐ No	Groundwater Table III screening levels apply within the *POC, and Groundwater Table I screening levels apply beyond the *POC.
	☐ N/A	Domestic-use wells, domestic-use springs or domestic-use cisterns were disregarded. See note below. Groundwater Table III screening levels apply within the *POC, and Groundwater Table I screening levels apply beyond the *POC.

***POC – Point of Compliance**

NOTE: Domestic-use wells, domestic-use springs or domestic-use cisterns: If site-specific information demonstrates no potential impact (e.g., a domestic-use well hydrogeologically upgradient from the excavation zone) to domestic-use wells, domestic-use springs, or domestic-use cisterns from a release within the excavation zone, those features shall be disregarded in the determination of site classification.

Provide the physical address and contact information for the owner of each domestic-use well, domestic-use spring or domestic-use cistern identified. All domestic-use wells, domestic-use springs, and domestic-use cisterns shall be remediated to the maximum contaminant levels established in 401 KAR Chapter 8.

Name:	Name:
Physical Address:	Physical Address:
Phone Number:	Phone Number:
☐ DU-Well ☐ DU-Spring ☐ DU-Cistern	☐ DU-Well ☐ DU-Spring ☐ DU-Cistern
Lat/Long:	Lat/Long:
Photo attached: ☐ Yes ☐ No, explain.	Photo attached: ☐ Yes ☐ No, explain.
Name:	Name:
Physical Address:	Physical Address:
Phone Number:	Phone Number:
☐ DU-Well ☐ DU-Spring ☐ DU-Cistern	☐ DU-Well ☐ DU-Spring ☐ DU-Cistern
Lat/Long:	Lat/Long:
Photo attached: ☐ Yes ☐ No, explain.	Photo attached: ☐ Yes ☐ No, explain.

Under the requirements of KRS Chapter 322 and 322A, this Classification Guide for soil and groundwater shall be completed and signed by a PE licensed with the Kentucky Board of Licensure for Professional Engineers and Land Surveyors or a PG registered with the Kentucky Board of Registration for Professional Geologists.

I, THE UNDERSIGNED, STATE, UNDER PENALTY OF LAW, THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED IN THIS AND ALL ATTACHED DOCUMENTS, AND THAT BASED ON MY INQUIRY OF THOSE INDIVIDUALS RESPONSIBLE FOR OBTAINING THE INFORMATION, I CERTIFY THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE.

Name and Title (Type or Print): _____

Signature/Date: _____

License/Registration Number, Date and Seal: _____

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